

Flood Control Project Maintenance
Levee Inspections

Fall 2012 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD0544 Reclamation District No. 0544 Upper Roberts Island	Overall LMA Rating	Total LMA Miles						
	U	10.33						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	4.88	0.10	5.28	51.11%	0.06			
Trim / Thin Trees	0.02		0.02	0.19%				
Encroachments	0.17	0.01	0.21	2.03%	0.09	0.11		
Animal Control	0.27		0.27	2.61%				
Slope Stability	0.04	0.02	0.12	1.16%				
Erosion / Bank Caving	0.03	0.01	0.07	0.68%				
Crown Surface / Depressions / Rutting	0.71	0.01	0.75	7.26%				
Flood Preparedness & Training	0.10		0.10	0.97%				
<i>Interior Drainage & Piping Systems</i>								
Erosion Areas		0.01	0.04	0.39%				
<i>Channels</i>								
Erosion / Bank Caving		0.01	0.04	0.39%				
Encroachments		0.01	0.04	0.39%				
<i>Supplemental</i>								
DWR Erosion Survey		0.05	0.20	1.94%				
<i>LMA Totals:</i>	6.22	0.23	7.14	69.12%	0.15	0.11	0.00	0.00

Unit No. 01 San Joaquin River LB RD0544	Overall Unit Rating	Total Unit Miles						
	U	6.11						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	2.72	0.07	3.00	49.10%	0.06			
Trim / Thin Trees	0.01		0.01	0.16%				
Encroachments	0.15		0.15	2.46%	0.02	0.03		
Animal Control	0.15		0.15	2.46%				
Slope Stability	0.03	0.01	0.07	1.15%				
Erosion / Bank Caving	0.03	0.01	0.07	1.15%				
Crown Surface / Depressions / Rutting	0.37	0.01	0.41	6.71%				
<i>Supplemental</i>								
DWR Erosion Survey		0.02	0.08	1.31%				
<i>Unit Totals:</i>	3.46	0.12	3.94	64.48%	0.08	0.03	0.00	0.00

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Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin (cont.)

Unit No. 02 Old River RB RD0544	Overall Unit Rating	Total Unit Miles						
	U	4.22						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	2.16	0.03	2.28	54.03%				
Trim / Thin Trees	0.01		0.01	0.24%				
Encroachments	0.02	0.01	0.06	1.42%	0.07	0.08		
Animal Control	0.12		0.12	2.84%				
Slope Stability	0.01	0.01	0.05	1.18%				
Crown Surface / Depressions / Rutting	0.34		0.34	8.06%				
<i>Interior Drainage & Piping Systems</i>								
Erosion Areas		0.01	0.04	0.95%				
<i>Channels</i>								
Erosion / Bank Caving		0.01	0.04	0.95%				
Encroachments		0.01	0.04	0.95%				
<i>Supplemental</i>								
DWR Erosion Survey		0.03	0.12	2.84%				
<i>Unit Totals:</i>	2.66	0.11	3.10	73.46%	0.07	0.08	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

LMA District Cover Sheet

Fall 2012 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.11
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	05/15/2012 - 05/21/2012		10/30/2012 - 10/30/2012	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector		
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.	
	Start	End								Start	End	
1	0.00	0.00	Earthen Levee	Operations & Maintenance Manuals	WS	A Ma				°	° 64	
										°	°	
										DWR ID: DWR_RD0544_01_s_2012_64		
2	0.00	0.00	Earthen Levee	Emergency Supplies & Equipment	WS	A Ma				°	° 65	
										°	°	
										DWR ID: DWR_RD0544_01_s_2012_65		
3	0.00	0.00	Earthen Levee	Flood Preparedness & Training	WS	M Ma				°	° 66	
										°	°	
										DWR ID: DWR_RD0544_01_s_2012_66		
4	0.05	0.18	Earthen Levee	Encroachments	LS	M Ma	EQ : Equipment Inspector Comments: Farm equipment and supplies stored at landside toe.			37.869605 ° 37.868180 ° 4 -121.329573 ° -121.328160 ° Y		
										DWR ID: DWR_RD0544_01_s_2012_4		
5	0.41	0.45	Supplemental DWR Erosion Survey		WS	C Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. The site has been repaired with riprap protection. Rotten tree roots and minor erosion visible immediately upstream of the site 08/23/2011: No significant changes observed on site. 09/07/2010: No significant changes observed on site. There are minor pockets of erosion lining the lower slope and undermining of the toe. There are annual grasses and emergent vegetation at the lower slope. Burrow holes were observed along the slope and persist throughout the 200-foot long site. 08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO. 09/30/2009: No major change observed since last visit; despite dense vegetation, the bank continues to erode and slough; the levee toe is being undermined; note the tree on site; the site was previously rated "U". 10/21/2008: Undermining of the levee toe; rodent holes in several location; trees with roots partially exposed; sloughing on slope. [2012 Site ID: RD0544U01RM47.12]				37.864820 ° 37.864820 ° 1 -121.327200 ° -121.327200 °	
										DWR ID:		
6	0.41	0.41	Earthen Levee	Trim / Thin Trees	LS	A/W Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.			37.864958 ° 37.864958 ° 2 -121.327142 ° -121.327142 °		
										DWR ID: DWR_RD0544_01_s_2012_2		
7	0.48	0.49	Earthen Levee	Erosion / Bank Caving	WSA/W	E1 Ma	Note and monitor erosion site.			37.864643 ° 37.864592 ° 5 -121.326363 ° -121.326165 °		
										DWR ID: DWR_RD0544_01_s_2012_5		
8	0.48	0.68	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.			37.864578 ° 37.863753 ° 3 -121.326210 ° -121.322835 °		
										DWR ID: DWR_RD0544_01_s_2012_3		
9	0.65	0.70	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping			37.863935 ° 37.863599 ° 9 -121.323341 ° -121.322442 °		
										DWR ID: DWR_RD0544_01_s_2012_9		

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain
+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LMR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	Photo
	Start	End						Start	End		
10	0.71	0.71	Earthen Levee	Vegetation	WS En	M	V6 : Landscaping	37.863575 °	37.863575 °	10	DWR ID: DWR_RD0544_01_s_2012_10
11	0.74	0.74	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T4	Trim trees over roadway to at least 12 feet above ground level.	37.863380 °	37.863380 °	12	DWR ID: DWR_RD0544_01_s_2012_12
12	1.13	1.13	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.859423 °	37.859423 °	39	DWR ID: DWR_RD0544_01_s_2012_39
13	1.14	1.76	Earthen Levee	Vegetation	LS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.859287 °	37.854252 °	15	DWR ID: DWR_RD0544_01_s_2012_15
14	1.33	1.44	Earthen Levee	Vegetation	WSA/W Ma	V2	: Remove the wild growth other than native grasses from the levee slopes.	37.857042 °	37.855792 °	19	DWR ID: DWR_RD0544_01_s_2012_19
15	1.44	1.44	Earthen Levee	Trim / Thin Trees	LS Ma	N	T5 : Tree stumps.	37.855778 °	37.855778 °	13	DWR ID: DWR_RD0544_01_s_2012_13
16	1.45	1.45	Earthen Levee	Trim / Thin Trees	WS Ma	N	T5 : Tree stumps.	37.855583 °	37.855583 °	14	DWR ID: DWR_RD0544_01_s_2012_14
17	1.49	1.55	Earthen Levee	Vegetation	LS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.855087 °	37.854187 °	42	DWR ID: DWR_RD0544_01_s_2012_42
18	1.58	1.69	Earthen Levee	Vegetation	WSA/W Ma	V2	: Remove the wild growth other than native grasses from the levee slopes.	37.854108 °	37.854837 °	43	DWR ID: DWR_RD0544_01_s_2012_43
19	1.73	1.85	Earthen Levee	Vegetation	LS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.854530 °	37.852850 °	55	DWR ID: DWR_RD0544_01_s_2012_55
20	1.80	1.80	Earthen Levee	Encroachments	CR En	U	PI : Pipe Inspector Comments: Landowner installed drain pipe across levee without permit. Pipe is blocking access to levee.	37.853673 °	37.853673 °	36	DWR ID: DWR_RD0544_01_f_2012_36
21	1.80	1.80	Earthen Levee	Encroachments	LS Ma	A/W	PR : Prunings	37.853445 °	37.853445 °	20	DWR ID: DWR_RD0544_01_s_2012_20
22	1.86	1.86	Earthen Levee	Encroachments	LS En	A/W	PR : Prunings	37.852771 °	37.852771 °	21	DWR ID: DWR_RD0544_01_s_2012_21
23	1.95	2.28	Earthen Levee	Vegetation	LS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.851615 °	37.848105 °	44	DWR ID: DWR_RD0544_01_s_2012_44

* Location
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
L/MR No	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
24	2.01	2.01	Supplemental DWR Erosion Survey	WS Ma	U	Inspector Comments: 08/07/2012: Erosion is right at the inside of a river bend. Dense vegetation visible at the site. [2012 Site ID:RD0544U01RM48.81]	37.850534 ° -121.322285 °	37.850534 ° -121.322285 °	Y	DWR ID:	38
25	2.27	2.27	Earthen Levee	Erosion / Bank Caving	LS Ma	M	E2 : Schedule repair of erosion site prior to the next inspection.	37.848137 ° -121.324838 °	37.848137 ° -121.324838 °	DWR ID: DWR_RD0544_01_s_2012_162	162
26	2.28	2.28	Earthen Levee	Erosion / Bank Caving	LS Ma	U	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Caving/erosion around irrigation pipe on landside slope.	37.847985 ° -121.324837 °	37.847985 ° -121.324837 °	DWR ID: DWR_RD0544_01_s_2012_23	23
27	2.29	2.33	Earthen Levee	Animal Control	LS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.847973 ° -121.324820 °	37.847105 ° -121.324577 °	DWR ID: DWR_RD0544_01_s_2012_8	8
28	2.31	2.38	Earthen Levee	Animal Control	LS Ma	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.847686 ° -121.324780 °	37.846743 ° -121.324336 °	DWR ID: DWR_RD0544_01_s_2012_34	34
29	2.34	2.34	Earthen Levee	Encroachments	LS En	M	GA : Garbage Inspector Comments: Garbage and prunings at landside toe.	37.847108 ° -121.324585 °	37.847108 ° -121.324585 °	DWR ID: DWR_RD0544_01_s_2012_7	7
30	2.58	2.58	Earthen Levee	Slope Stability	LS Ma	M	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	37.844337 ° -121.321853 °	37.844337 ° -121.321853 °	DWR ID: DWR_RD0544_01_s_2012_60	60
31	2.86	2.86	Earthen Levee	Trim / Thin Trees	LS Ma	N	T5 : Tree stumps.	37.841075 ° -121.320205 °	37.841075 ° -121.320205 °	DWR ID: DWR_RD0544_01_s_2012_22	22
32	2.94	2.94	Supplemental DWR Erosion Survey	WS Ma	U	Inspector Comments: 08/07/2012: Erosion is immediately upstream of a river bend. Dense vegetation is visible at the erosion site. [2012 Site ID:RD0544U01RM49.67]	37.840697 ° -121.318252 °	37.840697 ° -121.318252 °	DWR ID:	46	
33	2.98	3.21	Earthen Levee	Vegetation	LS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.840485 ° -121.318390 °	37.837225 ° -121.317408 °	DWR ID: DWR_RD0544_01_s_2012_47	47
34	2.98	2.98	Earthen Levee	Encroachments	LS Ma	M	PI : Pipe Inspector Comments: Landowner installing temporary irrigation system across levee crown without permit. Pipe is leaking and causing erosion on waterside slope.	37.840483 ° -121.318370 °	37.840483 ° -121.318370 °	DWR ID: DWR_RD0544_01_s_2012_16	16
35	3.19	3.19	Earthen Levee	Slope Stability	WS Ma	M	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	37.837530 ° -121.317510 °	37.837530 ° -121.317510 °	DWR ID: DWR_RD0544_01_s_2012_62	62
36	3.25	3.87	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.836763 ° -121.317307 °	37.829195 ° -121.311918 °	DWR ID: DWR_RD0544_01_s_2012_49	49

* Location
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector	
MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	Photo	
	Levee Mile	End						Start	End			
37	3.26	3.29	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	37.836615 °	37.836133 °	48	-121.317285 °	-121.317153 °
										DWR ID: DWR_RD0544_01_s_2012_48		
38	3.31	3.31	Earthen Levee	Encroachments	WS En	M	RA : Ramp Inspector Comments: Landowner has cut new ramp on waterside slope.	37.835951 °	37.835951 °	37	-121.317062 °	-121.317062 °
										DWR ID: DWR_RD0544_01_s_2012_37		
39	3.32	3.32	Earthen Levee	Erosion / Bank Caving	WS Ma	M	E1 : Note and monitor erosion site. Inspector Comments: Erosion located on waterside shoulder. Erosion caused by rain runoff.	37.835815 °	37.835815 °	50	-121.316997 °	-121.316997 °
										DWR ID: DWR_RD0544_01_s_2012_50		
40	3.51	3.51	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	37.833583 °	37.833583 °	56	-121.314968 °	-121.314968 °
										DWR ID: DWR_RD0544_01_s_2012_56		
41	3.52	4.72	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.833432 °	37.821853 °	51	-121.314792 °	-121.319992 °
										DWR ID: DWR_RD0544_01_s_2012_51		
42	3.95	3.95	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	37.828120 °	37.828120 °	24	-121.311504 °	-121.311504 °
										DWR ID: DWR_RD0544_01_s_2012_24		
43	3.97	4.34	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	M	C3 : Add appropriate gravel or road base. Grade and compact.	37.827800 °	37.824953 °	63	-121.311332 °	-121.314988 °
										DWR ID: DWR_RD0544_01_s_2012_63		
44	4.06	4.09	Earthen Levee	Animal Control	WS Ma	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.826621 °	37.826315 °	11	-121.310820 °	-121.311024 °
										DWR ID: DWR_RD0544_01_s_2012_11		
45	4.18	4.32	Earthen Levee	Vegetation	WSA/W Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.825762 °	37.825005 °	52	-121.312393 °	-121.314982 °
										DWR ID: DWR_RD0544_01_s_2012_52		
46	4.20	4.20	Earthen Levee	Erosion / Bank Caving	CR Ma	M	E2 : Schedule repair of erosion site prior to the next inspection.	37.825718 °	37.825718 °	6	-121.312773 °	-121.312773 °
										DWR ID: DWR_RD0544_01_s_2012_6		
47	4.28	4.28	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	37.825517 °	37.822955 °	57	-121.314160 °	-121.316835 °
										DWR ID: DWR_RD0544_01_s_2012_57		
48	4.32	4.32	Earthen Levee	Slope Stability	WS Ma	U	S1 : Repair slope instability. Inspector Comments: Ten inch pipe possibly broken pipe.	37.824995 °	37.824995 °	53	-121.314983 °	-121.314983 °
										DWR ID: DWR_RD0544_01_s_2012_53		
49	4.32	4.32	Earthen Levee	Encroachments	LS En	A/W	GA : Garbage Inspector Comments: Old concrete pipes on landside toe should be removed.	37.825151 °	37.825151 °	25	-121.314826 °	-121.314826 °
										DWR ID: DWR_RD0544_01_s_2012_25		
50	4.33	4.33	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	U	C2 : Repair depressions or ruts in the crown or slope. Inspector Comments: Depression across levee crown	37.825035 °	37.825035 °	58	-121.314967 °	-121.314967 °
										DWR ID: DWR_RD0544_01_s_2012_58		

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

MR No	Waterway						Bank	Unit Miles	Inspection Start/End	Inspector				
	Levee Mile		Category	Item	* Location	* Rating								
	Start	End												
			Unit No. 01 San Joaquin River				Left	6.11	10/30/2012 10/30/2012	Richard Willoughby				
51	4.34	4.34	Earthen Levee	Vegetation	LS Ma	V4 : Elderberries are blocking visibility and flood fight capability.			37.824943 ° -121.315008 °	37.824943 ° -121.315008 °				
									DWR ID: DWR_RD0544_01_s_2012_59					
52	4.44	4.72	Earthen Levee	Vegetation	WS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.			37.823617 ° -121.315550 °	37.821855 ° -121.319995 °				
									DWR ID: DWR_RD0544_01_s_2012_54					
53	4.53	4.53	Earthen Levee	Vegetation	LS Ma	V4 : Elderberries are blocking visibility and flood fight capability.			37.822934 ° -121.316870 °	37.822934 ° -121.316870 °				
									Y	DWR ID: DWR_RD0544_01_s_2012_41				
54	4.70	4.70	Earthen Levee	Encroachments	LS Ma	GA : Garbage			37.821901 ° -121.319683 °	37.821901 ° -121.319683 °				
									DWR ID: DWR_RD0544_01_s_2012_27					
55	4.75	4.75	Earthen Levee	Slope Stability	LS Ma	S1 : Repair slope instability.			37.821626 ° -121.320471 °	37.821626 ° -121.320471 °				
									Y	DWR ID: DWR_RD0544_01_s_2012_28				
56	4.75	4.75	Earthen Levee	Animal Control	CR Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.			37.821626 ° -121.320471 °	37.821626 ° -121.320471 °				
									DWR ID: DWR_RD0544_01_s_2012_29					
57	4.75	4.78	Earthen Levee	Vegetation	LS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.			37.821592 ° -121.320617 °	37.821253 ° -121.320927 °				
									DWR ID: DWR_RD0544_01_s_2012_26					
58	4.78	4.78	Earthen Levee	Encroachments	LS En	BU : Building Inspector Comments: New unauthorized pump shed on landside toe.			° °	° ° 45				
										DWR ID: DWR_RD0544_01_s_2012_45				
59	4.86	4.86	Earthen Levee	Encroachments	LS A/W Ma	PR : Prunings Inspector Comments: Remove dead stumps at landside toe and prunings on landside slope.			37.820227 ° -121.321115 °	37.820227 ° -121.321115 °				
									DWR ID: DWR_RD0544_01_s_2012_30					
60	4.86	4.86	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.			37.820081 ° -121.321043 °	37.820081 ° -121.321043 °				
									DWR ID: DWR_RD0544_01_s_2012_31					
61	4.94	4.94	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.			37.819249 ° -121.320460 °	37.819249 ° -121.320460 °				
									DWR ID: DWR_RD0544_01_s_2012_32					
62	4.96	4.96	Earthen Levee	Encroachments	LS En	DT : Ditch Inspector Comments: Agricultural ditch on landside toe.			° °	° ° 163				
										DWR ID: DWR_RD0544_01_s_2012_163				
63	5.00	5.30	Earthen Levee	Vegetation	LS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.			37.818718 ° -121.319508 °	37.814662 ° -121.320302 °				
									Y	DWR ID: DWR_RD0544_01_s_2012_33				
64	5.05	5.05	Earthen Levee	Vegetation	LS Ma	V4 : Elderberries are blocking visibility and flood fight capability.			37.818152 ° -121.319095 °	37.818152 ° -121.319095 °				
									DWR ID: DWR_RD0544_01_s_2012_17					
65	5.39	5.39	Earthen Levee	Vegetation	LS Ma	V4 : Elderberries are blocking visibility and flood fight capability.			37.813659 ° -121.319614 °	37.813659 ° -121.319614 °				
									DWR ID: DWR_RD0544_01_s_2012_35					

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating	N : Not Inspected/Rated	+ Issue Type
A : Acceptable		Ma : Maintenance Deficiency
M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
66	5.54	5.60	Earthen Levee	Vegetation	LS	U	V4 : Elderberries are blocking visibility and flood fight capability.	Ma		37.812033 °	37.811687 °
										-121.319737 °	-121.320677 °
											Y
										DWR ID: DWR_RD0544_01_s_2012_18	
67	5.69	5.69	Earthen Levee	Trim / Thin Trees	LS	N	T5 : Tree stumps.	Ma		37.811199 °	37.811199 °
										-121.322176 °	-121.322176 °
											40
										DWR ID: DWR_RD0544_01_s_2012_40	

* Location
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WS : Water Side
CR : Crown

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U : Unacceptable
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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.05
End Levee Mile	0.18
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at equipment along landside toe.	
richard_f_20121012_427.jpg	



Levee Mile Report Line	4
Start Levee Mile	0.05
End Levee Mile	0.18
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at equipment along landside toe.	
richard_f_20121012_428.jpg	



Levee Mile Report Line	20
Start Levee Mile	1.80
End Levee Mile	1.80
Location	Crown
Category	Earthen Levee
Item	Encroachments
Looking south at drain pipe across levee crown.	
richard_f_20121101_901.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	20
Start Levee Mile	1.80
End Levee Mile	1.80
Location	Crown
Category	Earthen Levee
Item	Encroachments
Looking southeast at drain pipe blocking access to levee.	
richard_f_20121101_902.JPG	



Levee Mile Report Line	20
Start Levee Mile	1.80
End Levee Mile	1.80
Location	Crown
Category	Earthen Levee
Item	Encroachments
Looking west at drain pipe crossing levee from landside.	
richard_f_20121101_903.JPG	



Levee Mile Report Line	24
Start Levee Mile	2.01
End Levee Mile	2.01
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of erosion	
SJR2012_RD0544U01RM48.81_1.jpg	



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+ Issue Type
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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	26
Start Levee Mile	2.28
End Levee Mile	2.28
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking north at erosion under irrigation pipe on landside slope.	
richard_f_20121012_442.jpg	



Levee Mile Report Line	26
Start Levee Mile	2.28
End Levee Mile	2.28
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking east at erosion under irrigation pipe on landside slope.	
richard_f_20121012_443.jpg	



Levee Mile Report Line	29
Start Levee Mile	2.34
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at garbage at landside toe.	
richard_f_20121012_432.jpg	



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+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	30
Start Levee Mile	2.58
End Levee Mile	2.58
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking south at slope damage on landside slope.	
richard_f_20121012_454.jpg	



Levee Mile Report Line	30
Start Levee Mile	2.58
End Levee Mile	2.58
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking north at slope damage on landside slope.	
richard_f_20121012_455.jpg	



Levee Mile Report Line	32
Start Levee Mile	2.94
End Levee Mile	2.94
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the erosion. The pumping machine unlikely the cause of the erosion.	
SJR2012_RD0544U01RM49.67_1.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	32
Start Levee Mile	2.94
End Levee Mile	2.94
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the site. Note the dense vegetation and rocks immediately upstream of the erosion	SJR2012_RD0544U01RM49.67_2.jpg



Levee Mile Report Line	34
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at landowner installing temporary pump system without permit and damage to waterside slope.	richard_f_20121012_433.jpg



Levee Mile Report Line	34
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at pump and irrigation ramp on levee waterside and crown.	richard_f_20121012_434.jpg



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En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	34
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at damage landside slope caused by vehicle traffic.	
richard_f_20121012_435.jpg	



Levee Mile Report Line	34
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at pipe and pipe ramp on landside and crown of levee.	
richard_f_20121012_436.jpg	



Levee Mile Report Line	34
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at erosion caused by leaking pipe on waterside slope.	
richard_f_20121012_437.jpg	



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+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	34
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at diesel tank on waterside shoulder in front of gate.(Spring 2012)	
richard_f_20121012_438.jpg	



Levee Mile Report Line	34
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northeast at unauthorized pump system on waterside slope.	
richard_f_20121012_439.jpg	



Levee Mile Report Line	35
Start Levee Mile	3.19
End Levee Mile	3.19
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking east at slope damage by foot traffic near pump house on waterside of levee.	
richard_f_20121101_904.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	43
Start Levee Mile	3.97
End Levee Mile	4.34
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking south at one of several sites needing gravel or road base on levee crown.	
richard_f_20121012_456.jpg	



Levee Mile Report Line	46
Start Levee Mile	4.20
End Levee Mile	4.20
Location	Crown
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking north at sink hole on levee crown near waterside shoulder.	
richard_f_20121012_429.jpg	



Levee Mile Report Line	46
Start Levee Mile	4.20
End Levee Mile	4.20
Location	Crown
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking north at sink hole on levee crown.	
richard_f_20121012_430.jpg	



* Location LS : Land Side WS : Water Side CR : Crown
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** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable
--

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	46
Start Levee Mile	4.20
End Levee Mile	4.20
Location	Crown
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking north at sink hole on crown near waterside shoulder.	
richard_f_20121012_431.jpg	



Levee Mile Report Line	48
Start Levee Mile	4.32
End Levee Mile	4.32
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking east at erosion on waterside slope and berm cause by leaking 10" pipe.	
richard_f_20121012_449.jpg	



Levee Mile Report Line	48
Start Levee Mile	4.32
End Levee Mile	4.32
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking west at hole on waterside shoulder and slope cause by possible broken pipe.	
richard_f_20121012_450.jpg	



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WS : Water Side
CR : Crown

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En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	48
Start Levee Mile	4.32
End Levee Mile	4.32
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking northwest at pump and platform for 10" possible leaking pipe.	
richard_f_20121012_451.jpg	



Levee Mile Report Line	50
Start Levee Mile	4.33
End Levee Mile	4.33
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking south at depression greater than 6" on waterside shoulder.	
richard_f_20121012_452.jpg	



Levee Mile Report Line	50
Start Levee Mile	4.33
End Levee Mile	4.33
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking southeast at depression on waterside shoulder.	
richard_f_20121012_453.jpg	



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Ob : Design & System Obsolescence
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	53
Start Levee Mile	4.53
End Levee Mile	4.53
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberries on landside slope and toe.	
richard_f_20121012_447.jpg	



Levee Mile Report Line	55
Start Levee Mile	4.75
End Levee Mile	4.75
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking north at erosion around irrigation pipe on landside	
richard_f_20121012_444.jpg	



Levee Mile Report Line	55
Start Levee Mile	4.75
End Levee Mile	4.75
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking northeast at erosion around irrigation pipe on landside slope.	
richard_f_20121012_445.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	58
Start Levee Mile	4.78
End Levee Mile	4.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at a unauthorized pump house on landside toe.	
richard_f_20121012_448.jpg	



Levee Mile Report Line	62
Start Levee Mile	4.96
End Levee Mile	4.96
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at ditch on landside slope and toe.	
richard_f_20121012_457.jpg	



Levee Mile Report Line	63
Start Levee Mile	5.00
End Levee Mile	5.30
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at dense veg. on landside slope and toe.	
richard_f_20121012_446.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	66
Start Levee Mile	5.54
End Levee Mile	5.60
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest on elderberries on landside slope and toe.	
richard_f_20121012_440.jpg	



Levee Mile Report Line	66
Start Levee Mile	5.54
End Levee Mile	5.60
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberries on landside slope and toe.	
richard_f_20121012_441.jpg	



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LS : Land Side
WS : Water Side
CR : Crown

** Rating	A : Acceptable	N : Not Inspected/Rated	+ Issue Type
	M : Minimally Acceptable	C : Corrected	Ma : Maintenance Deficiency
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			En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 02 Old River			Right	4.22
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	05/21/2012 - 05/21/2012		10/30/2012 - 10/30/2012	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Jerry Robinson		Jerry Robinson	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
1	0.32	0.37	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.808972 ° -121.333720 °	37.809442 ° -121.334415 °	3	DWR ID: DWR_RD0544_02_s_2012_3
2	0.41	0.41	Earthen Levee	Vegetation	LS Ma	U	V4 : Elderberries are blocking visibility and flood fight capability.	37.809788 ° -121.334727 °	37.809788 ° -121.334727 °	4	DWR ID: DWR_RD0544_02_s_2012_4
3	0.43	1.13	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.810250 ° -121.334933 °	37.819452 ° -121.333755 °	1	DWR ID: DWR_RD0544_02_s_2012_1
4	0.43	1.50	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.810253 ° -121.334930 °	37.822285 ° -121.339252 °	2	DWR ID: DWR_RD0544_02_s_2012_2
5	0.52	0.52	Earthen Levee	Trim / Thin Trees	LS Ma	N	T5 : Tree stumps.	37.811592 ° -121.335018 °	37.811592 ° -121.335018 °	11	DWR ID: DWR_RD0544_02_s_2012_11
6	0.74	0.74	Earthen Levee	Vegetation	LS Ma	U	V4 : Elderberries are blocking visibility and flood fight capability.	37.814333 ° -121.334592 °	37.814333 ° -121.334592 °	5	DWR ID: DWR_RD0544_02_s_2012_5
7	0.79	0.79	Interior Drainage & Piping Systems	Erosion Areas	WS Ma	U	Inspector Comments: Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.	37.815102 ° -121.333898 °	37.815102 ° -121.333898 °	8	DWR ID: DWR_RD0544_02_s_2012_8
8	1.02	1.02	Earthen Levee	Encroachments	WS En	M	GA : Garbage	37.818100 ° -121.332750 °	37.818100 ° -121.332750 °	6	DWR ID: DWR_RD0544_02_s_2012_6
9	1.14	1.14	Earthen Levee	Encroachments	LS Ma	U	PR : Prunings	37.819530 ° -121.333827 °	37.819530 ° -121.333827 °	20	DWR ID: DWR_RD0544_02_s_2012_20
10	1.15	1.21	Earthen Levee	Encroachments	LS En	M	FE : Fence	37.819560 ° -121.333893 °	37.820083 ° -121.334812 °	25	DWR ID: DWR_RD0544_02_s_2012_25
11	1.17	1.23	Earthen Levee	Encroachments	LS En	U	AV : Abandoned vehicles	37.819830 ° -121.334233 °	37.820235 ° -121.335268 °	18	DWR ID: DWR_RD0544_02_s_2012_18
12	1.23	1.23	Earthen Levee	Encroachments	LS Ma	M	PR : Prunings	37.820235 ° -121.335127 °	37.820235 ° -121.335127 °	7	DWR ID: DWR_RD0544_02_s_2012_7
13	1.26	1.26	Earthen Levee	Encroachments	CR En	U	PI : Pipe	37.820367 ° -121.335717 °	37.820367 ° -121.335717 °	19	DWR ID: DWR_RD0544_02_s_2012_19
* Location LS : Land Side WS : Water Side CR : Crown			** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable			N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement		

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
L/MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	Photo
	Start	End						Start	End		
14	1.36	1.50	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.821095 °	37.822285 °	38	-121.337185 ° -121.339252 °
											DWR ID: DWR_RD0544_02_s_2012_38
15	1.39	1.39	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Control bamboo on waterside slope.	37.821323 °	37.821323 °	14	-121.337725 ° -121.337725 °
											DWR ID: DWR_RD0544_02_s_2012_14
16	1.40	1.40	Earthen Levee	Encroachments	LS A/W Ma	PI	Pipe Inspector Comments: Pipe should be removed or properly abandoned.	37.821463 °	37.821463 °	21	-121.337900 ° -121.337900 ° Y
											DWR ID: DWR_RD0544_02_s_2012_21
17	1.41	1.41	Earthen Levee	Vegetation	LS Ma	U	V4 : Elderberries are blocking visibility and flood fight capability.	37.821423 °	37.821423 °	10	-121.337878 ° -121.337878 ° Y
											DWR ID: DWR_RD0544_02_s_2012_10
18	1.44	1.44	Earthen Levee	Slope Stability	LS Ma	M	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	37.821697 °	37.821697 °	22	-121.338397 ° -121.338397 ° Y
											DWR ID: DWR_RD0544_02_s_2012_22
19	1.47	1.47	Earthen Levee	Animal Control	WS Ma	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.821954 °	37.821954 °	28	-121.338715 ° -121.338715 °
											DWR ID: DWR_RD0544_02_s_2012_28
20	1.48	1.48	Earthen Levee	Encroachments	LS En	U	TR : Tree or limb Inspector Comments: Dead tree and limbs should be remove from landside shoulder and slope	37.822082 °	37.822082 °	23	-121.338932 ° -121.338932 ° Y
											DWR ID: DWR_RD0544_02_s_2012_23
21	1.69	2.11	Earthen Levee	Vegetation	WSA/W Ma	W	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.820863 °	37.819393 °	26	-121.341285 ° -121.344428 °
											DWR ID: DWR_RD0544_02_s_2012_26
22	1.89	1.89	Earthen Levee	Slope Stability	WS Ma	U	S1 : Repair slope instability. Inspector Comments: Caving on waterside shoulder approx.12-18" deep 24-36" in diameter.	37.818002 °	37.818002 °	16	-121.341645 ° -121.341645 ° Y
											DWR ID: DWR_RD0544_02_s_2012_16
23	2.04	2.04	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.818733 °	37.818733 °	44	-121.343340 ° -121.343340 °
											DWR ID: DWR_RD0544_02_s_2012_44
24	2.05	2.20	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.818842 °	37.820193 °	39	-121.343520 ° -121.345525 °
											DWR ID: DWR_RD0544_02_s_2012_39
25	2.11	2.12	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.	37.819337 °	37.819460 °	13	-121.344275 ° -121.344492 ° Y
											DWR ID: DWR_RD0544_02_s_2012_13
26	2.25	2.25	Earthen Levee	Animal Control	WS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.820697 °	37.820697 °	32	-121.346050 ° -121.346050 °
											DWR ID: DWR_RD0544_02_s_2012_32
27	2.28	2.38	Earthen Levee	Animal Control	LS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.821096 °	37.821945 °	33	-121.346418 ° -121.347897 °
											DWR ID: DWR_RD0544_02_s_2012_33

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector		
L/MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment			GPS Latitude/Longitude	Issue No.	
	Start	End					Start	End	Photo			
28	2.29	2.29	Earthen Levee	Vegetation	LS	A/W	V2 : Remove the wild growth other than native grasses Ma from the levee slopes.			37.821240 °	37.821240 °	40
										-121.346553 °	-121.346553 °	
										DWR ID: DWR_RD0544_02_s_2012_40		
29	2.34	2.34	Supplemental DWR Erosion Survey		WS	U	Inspector Comments: 08/07/2012: The site was first reported in 2012 spring levee inspection report. The data were estimated as the site is underneath a irrigation pump station and inaccessible by boat or land survey. It's possible the pump station played a role in the erosion. [2012 Site ID:RD0544U02RM33.21]			37.821763 °	37.821763 °	9
						Ma				-121.347275 °	-121.347275 °	Y
										DWR ID:		
30	2.35	2.35	Channels	Erosion / Bank Caving	WS	U	Inspector Comments: Large erosion and beaver activity at waterside toe of levee.			37.821763 °	37.821763 °	24
					Ma					-121.347275 °	-121.347275 °	Y
										DWR ID: DWR_RD0544_02_s_2012_24		
31	2.36	3.29	Earthen Levee	Vegetation	LS	A/W	V2 : Remove the wild growth other than native grasses Ma from the levee slopes.			37.821840 °	37.819198 °	41
										-121.347428 °	-121.359940 °	
										DWR ID: DWR_RD0544_02_s_2012_41		
32	2.48	3.29	Earthen Levee	Vegetation	WSA/W	V2	: Remove the wild growth other than native grasses Ma from the levee slopes.			37.821037 °	37.819200 °	42
										-121.349050 °	-121.359943 °	
										DWR ID: DWR_RD0544_02_s_2012_42		
33	2.64	2.64	Channels	Encroachments	WS	U	Inspector Comments: Remove dilapidated pump platform Ma from river.			37.818872 °	37.818872 °	17
					Ma					-121.350392 °	-121.350392 °	Y
										DWR ID: DWR_RD0544_02_s_2012_17		
34	2.65	2.65	Earthen Levee	Encroachments	CR	M	PI : Pipe Inspector Comments: Abandoned pipe at landside and waterside shoulder is open on both ends.			37.818867 °	37.818867 °	15
					Ma					-121.350393 °	-121.350393 °	Y
										DWR ID: DWR_RD0544_02_s_2012_15		
35	2.65	2.67	Supplemental DWR Erosion Survey		WS	U	Inspector Comments: 08/07/2012: Series of pocket erosion were discovered at the levee toe during the boat survey. The area is covered with vegetation and riprap rocks, but the rocks have been washed away. [2012 Site ID:RD0544U02RM32.91]			37.817760 °	37.817760 °	12
					Ma					-121.350850 °	-121.350850 °	Y
										DWR ID:		
36	2.76	3.10	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	C3 : Add appropriate gravel or road base. Grade and compact.			37.817747 °	37.817497 °	43
					Ma					-121.351578 °	-121.357490 °	
										DWR ID: DWR_RD0544_02_s_2012_43		
37	3.53	3.56	Earthen Levee	Vegetation	LS	M	V2 : Remove the wild growth other than native grasses Ma from the levee slopes. Inspector Comments: Cactus on landside slope.			37.819576 °	37.819530 °	36
					Ma					-121.364056 °	-121.364653 °	Y
										DWR ID: DWR_RD0544_02_s_2012_36		
38	3.61	4.22	Earthen Levee	Vegetation	WSA/W	V2	: Remove the wild growth other than native grasses Ma from the levee slopes.			37.819443 °	37.822442 °	47
										-121.365305 °	-121.374608 °	
										DWR ID: DWR_RD0544_02_s_2012_47		
39	3.64	4.22	Earthen Levee	Vegetation	LS	A/W	V2 : Remove the wild growth other than native grasses Ma from the levee slopes.			37.819408 °	37.822442 °	48
										-121.366005 °	-121.374607 °	
										DWR ID: DWR_RD0544_02_s_2012_48		

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at elderberries on landside slope and toe.	
richard_f_20121012_458.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberries on landside slope.	
richard_f_20121012_459.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at elderberry on landside slope. (Spring 2012)	
richard_f_20121012_460.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.74
End Levee Mile	0.74
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberries on landside slope and toe.	
richard_f_20121012_461.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking at top of siphon on waterside shoulder with 3' of caving around pipe.	
richard_f_20121012_463.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking at caving around 10" siphon pipe on waterside shoulder.	
richard_f_20121012_464.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking south at depression greater than 6" on waterside shoulder.	
richard_f_20121012_465.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking south at depression greater than 6" around siphon on waterside shoulder.	
richard_f_20121012_466.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking at top of siphon with a depression greater than 6" on waterside shoulder.	
richard_f_20121012_467.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking west at caving around siphon on waterside shoulder. (Spring 2012)	
richard_f_20121012_468.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking south at caving around siphon on waterside shoulder.(Spring 2012)	
richard_f_20121012_469.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas
Looking east at caving around siphon on waterside shoulder. (Spring 2012)	
richard_f_20121012_470.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	1.02
End Levee Mile	1.02
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at garbage on waterside shoulder and slope.	
richard_f_20121012_462.jpg	



Levee Mile Report Line	9
Start Levee Mile	1.14
End Levee Mile	1.14
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at pruning pile on landside slope.	
richard_f_20121012_485.jpg	



Levee Mile Report Line	9
Start Levee Mile	1.14
End Levee Mile	1.14
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at garbage and pruning pile at landside toe.(Spring 2012)	
richard_f_20121012_486.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	1.17
End Levee Mile	1.23
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at vehicles and farm equipment stored on landside landing.	
richard_f_20121012_480.jpg	



Levee Mile Report Line	11
Start Levee Mile	1.17
End Levee Mile	1.23
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northwest at vehicles and farm equipment stored on landside landing.	
richard_f_20121012_481.jpg	



Levee Mile Report Line	11
Start Levee Mile	1.17
End Levee Mile	1.23
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at farm equipment, vehicles, and other items stored on landside landing.	
richard_f_20121115_497.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	13
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Crown
Category	Earthen Levee
Item	Encroachments
Looking north at covering and ramp over irrigation pipe.	
richard_f_20121012_482.jpg	



Levee Mile Report Line	13
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Crown
Category	Earthen Levee
Item	Encroachments
Looking east at ramp over irrigation pipe.	
richard_f_20121012_483.jpg	



Levee Mile Report Line	13
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Crown
Category	Earthen Levee
Item	Encroachments
Looking south at covering and ramp over irrigation pipe.	
richard_f_20121012_484.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at pipe on landside slope.

richard_f_20121012_487.jpg



Levee Mile Report Line	16
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at pipe and erosion just above pipe on landside slope and shoulder.

richard_f_20121012_488.jpg



Levee Mile Report Line	16
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at east end of pipe on waterside slope.

richard_f_20121012_489.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	17
Start Levee Mile	1.41
End Levee Mile	1.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberries on landside slope and toe.	
richard_f_20121012_471.jpg	



Levee Mile Report Line	17
Start Levee Mile	1.41
End Levee Mile	1.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at elderberries on landside slope.	
richard_f_20121012_472.jpg	



Levee Mile Report Line	18
Start Levee Mile	1.44
End Levee Mile	1.44
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking northwest at slope damage caused by vehicle traffic.	
richard_f_20121012_490.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	20
Start Levee Mile	1.48
End Levee Mile	1.48
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at dead tree and tree limbs on landside shoulder and slope.	
richard_f_20121012_491.jpg	



Levee Mile Report Line	22
Start Levee Mile	1.89
End Levee Mile	1.89
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking southeast at depression greater than 6" and slope stability on waterside shoulder and slope.	
richard_f_20121012_475.jpg	



Levee Mile Report Line	22
Start Levee Mile	1.89
End Levee Mile	1.89
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking east at depression and slope stability on waterside slope.	
richard_f_20121012_476.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	22
Start Levee Mile	1.89
End Levee Mile	1.89
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking east at caving on waterside shoulder. (Fall Inspection)	
richard_f_20121012_477.jpg	



Levee Mile Report Line	22
Start Levee Mile	1.89
End Levee Mile	1.89
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking southeast at caving on waterside shoulder. (Fall Inspection)	
richard_f_20121012_478.jpg	



Levee Mile Report Line	22
Start Levee Mile	1.89
End Levee Mile	1.89
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking east at vertical erosion on waterside slope.	
richard_f_20121115_498.jpg	



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Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	25
Start Levee Mile	2.11
End Levee Mile	2.12
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at elderberries on landside slope and toe.	
richard_f_20121012_473.jpg	



Levee Mile Report Line	29
Start Levee Mile	2.34
End Levee Mile	2.34
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the erosion site. View is partially blocked by the pump structure and vegetation	
SJR2012_RD0544U02RM33.21_1.jpg	



Levee Mile Report Line	29
Start Levee Mile	2.34
End Levee Mile	2.34
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the site	
SJR2012_RD0544U02RM33.21_2.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	30
Start Levee Mile	2.35
End Levee Mile	2.35
Location	Water Side
Category	Channels
Item	Erosion / Bank Caving
Looking south at breaver hole at waterside toe.	
richard_f_20121012_492.jpg	



Levee Mile Report Line	30
Start Levee Mile	2.35
End Levee Mile	2.35
Location	Water Side
Category	Channels
Item	Erosion / Bank Caving
Looking north at erosion on waterside slope.	
richard_f_20121012_493.jpg	



Levee Mile Report Line	30
Start Levee Mile	2.35
End Levee Mile	2.35
Location	Water Side
Category	Channels
Item	Erosion / Bank Caving
Looking south at river erosion at waterside toe near pumping station.	
richard_f_20121012_494.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	10/30/2012 10/30/2012	Richard Willoughby

Levee Mile Report Line	33
Start Levee Mile	2.64
End Levee Mile	2.64
Location	Water Side
Category	Channels
Item	Encroachments
Looking east at dilapidated pump platform.	
<i>richard_f_20121012_479.jpg</i>	



Levee Mile Report Line	34
Start Levee Mile	2.65
End Levee Mile	2.65
Location	Crown
Category	Earthen Levee
Item	Encroachments
Abandoned pipe at LM 2.65, landside view.	
<i>richard_f_20121012_474.jpg</i>	



Levee Mile Report Line	35
Start Levee Mile	2.65
End Levee Mile	2.67
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of pocket erosion. Note the vegetation and riprap rocks at the site	
<i>SJR2012_RD0544U02RM32.91_1.jpg</i>	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0544 Upper Roberts Island

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Levee Mile Report Line	35
Start Levee Mile	2.65
End Levee Mile	2.67
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of pocket erosion



SJR2012_RD0544U02RM32.91_2.jpg

Levee Mile Report Line	37
Start Levee Mile	3.53
End Levee Mile	3.56
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at overgrown cactus on landside slope.



richard_f_20121012_495.jpg

Levee Mile Report Line	37
Start Levee Mile	3.53
End Levee Mile	3.56
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at cactus on landside slope and toe.



richard_f_20121012_496.jpg

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